

RACE AND ENDS' PERCEPTION OF HARM AS PREDICTORS OF TOBACCO-AND-NICOTINE CONTAINING PRODUCTS USE INITIATION AT 1 YEAR FOLLOW UP

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BACKGROUND:

• Dramatically increase of the use of electronic nicotine devices (ENDS) among young adults (ages 18-24) entering the U.S. military



What social determinants may drive this observation?

PURPOSE OF CURRENT STUDY:

 Dramatically increase of the use of electronic nicotine devices (ENDS) among young adults (ages –) entering the U.S. military

2013
5.5% of Service
Members
entering the
military

2018
15.3% of Service
Members
entering the
military

- What social determinants may drive this observation?
 - Racial differences in active use and initiation
 - Perception of harm

METHODS:

- N = 4,652
 - Reported never using any tobacco products at baseline
- One baseline and one-year follow-up surveys
 - Surveys
- Five Technical Training Air Force bases
 - Bases
- Analysis:
 - Multivariable multinomial logistic regression model

- Race and perceived harm of ENDS use presented significant main and interaction effects
 - 1) Among those who perceiving ENDS as harmful, *Whites* more likely to use ENDS at one-year follow-up (OR= 1.41,95% CI: $1.03\sim1.94,p=.035$)

- Race and perceived harm of ENDS use presented significant main and interaction effects
 - 1) Among those who perceiving ENDS as harmful, Whites more likely to use ENDS at one-year follow-up (OR= 1.41,95% CI: $1.03\sim1.94,p=.035$)
 - In the <u>White subsample</u>, White participants who perceived ENDS as <u>harmful</u> were less likely to use ENDS at one-year follow-up (OR=0.45, 95% CI: $0.24\sim0.86$, p=0.016)

- Race and perceived harm of ENDS use presented significant main and interaction effects
 - 1) Perceiving ENDS as harmful -> Whites more likely to use ENDS at one-year follow-up (OR= 1.41, 95% CI:1.03~1.94, p = .035)
 - White participants who perceived ENDS as harmful -> less likely to use ENDS at one-year follow-up (OR=0.45, 95% CI: $0.24\sim0.86$, p=0.016)
 - 3) In the Non-White subsample, those who perceived ENDS as harmful showed no significant differences (OR=0.54, 95% CI: 0.21~1.37, p=0.193)

- Race and perceived harm of ENDS use presented significant main and interaction effects
 - Perceiving ENDS as harmful -> Whites more likely to use ENDS at one-year follow-up (OR= 1.41, 95% CI:1.03~1.94, p = .035)
 - 2) White participants who perceived ENDS as harmful -> less likely to use ENDS at one-year follow-up (OR=0.45, 95% CI: 0.24~0.86, p= 0.016)
 - 3) Non-White participants who perceived ENDS as harmful > no significant differences (OR=0.54, 95% CI: 0.21~1.37, p=0.193)
 - 4) Perceiving ENDS as harmful regardless of race made it less likely to use other tobacco- and nicotine-containing products (OR=0.53, 95% CI: $0.38\sim0.76$, p=0.0004 among Non-Whites; OR=0.55, 95% CI: $0.39\sim0.75$, p=0.0002 among Whites)

